

Application No.: 09/503,524
Amdt. dated: 6/1/2005
Response to Office Action of 05/12/2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

Claims

Claims 1-9 (Cancelled)

10. (Currently amended) A method for igniting a cartridge to launch a projectile using a first initiator and a second initiator, wherein the cartridge has a temperature performance profile, comprising the steps of:

- (a) receiving an initiation signal;
- (b) reading a current temperature in the cartridge;
- (c) determining a delay setting from the current temperature and the temperature performance profile;
- (d) initiating an event timer;
- (e) firing the first initiator to trigger a translation mechanism to start the projectile moving forward;
- (f) commencing a second an event countdown after the projectile has moved a predetermined distance; and
- (g) arming the second initiator when the event countdown is complete.

11. (Original) The method of claim 10 wherein the step of receiving an initiation signal further comprises receiving an initiation signal for an electrically fired cartridge.

12. (Withdrawn) The method of claim 10 wherein the step of receiving an initiation signal further comprises receiving an initiation signal from a firing pin for a percussion fired cartridge.

13. (Withdrawn-currently amended) The method of claim 10 wherein the step of commencing a second- the event countdown further comprises determining whether pressure conditions meeting

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a predetermined safety criterion are present in the cartridge before firing the second initiator, otherwise aborting arming the second initiator.

14. (Currently amended) The method of claim 10 wherein the step of commencing ~~a second-~~ the event countdown further comprises determining whether forward movement of the projectile ~~satisfy~~ satisfies a predetermined safety criterion before firing the second initiator.

15. (Withdrawn-currently amended) The method of claim 10 wherein the step of commencing ~~a second-~~ the event countdown further comprises the steps of:

- (a) determining whether pressure conditions meeting a predetermined safety criterion are present in the cartridge before firing the second initiator; and
- (b) determining whether forward movement of the projectile satisfy a predetermined safety criterion before firing the second initiator.

Claims 16-20 (Cancelled)

21. (New) The method of claim 10 wherein the translation mechanism further comprises two interlocking tubes containing a small propellant charge.

22. (New) A method for igniting a cartridge to launch a projectile using a first initiator and a second initiator, wherein the cartridge has a temperature performance profile, comprising the steps of:

- (a) receiving an initiation signal for an electrically fired cartridge;
- (b) reading a current temperature in the cartridge;
- (c) determining a delay setting from the current temperature and the temperature performance profile;
- (d) initiating an event timer;

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- (e) firing the first initiator to trigger a translation mechanism to start the projectile moving forward, wherein the translation mechanism includes two interlocking tubes containing a small propellant charge;
- (f) commencing an event countdown after the projectile has moved a predetermined distance; and
- (g) determining whether forward movement of the projectile satisfy a predetermined safety criterion before arming the second initiator when the event countdown is complete.